

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**

L Number	Hits	Search Text	DB	Time stamp
-	8	((("5768271") or ("6073172") or ("6079020") or ("6112085") or ("6148337") or ("6173399") or ("6175917") or ("6178505")) .PN.	USPAT; US-PGPUB	2004/07/26 16:04
-	1	("6205488") .PN.	USPAT; US-PGPUB	2004/07/26 10:42
-	1105	709/201.ccls. and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:21
-	0	((709/201.ccls. and @ad<20010424) and ((VPN or (virtual adj2 private adj2 network)) NEAR7 (virtual adj4 router))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 10:47
-	0	((709/201.ccls. and @ad<20010424) and ((VPN or (virtual adj2 private adj2 network)) SAME (virtual adj4 router))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:21
-	18	((709/201.ccls. and @ad<20010424) and ((VPN or (virtual adj2 private adj2 network)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:06
-	70	((VPN or (virtual adj2 private adj2 network))) SAME (virtual NEAR4 router) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:15
-	1	((((VPN or (virtual adj2 private adj2 network))) SAME (virtual NEAR4 router) and @ad<20010424) and ((VLAN or (virtual NEAR3 LAN)) NEAR5 switch))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 13:30
-	0	((((VPN or (virtual adj2 private adj2 network))) SAME (virtual NEAR4 router) and @ad<20010424) and ((logical NEAR2 unit NEAR3 number) or "LUN"))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:15
-	1	((VPN or (virtual adj2 private adj2 network))) SAME ((logical NEAR2 unit NEAR3 number) or "LUN") and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:17
-	0	20020156867.URPN.	USPAT	2004/07/26 11:16
-	1	((VPN or (virtual adj2 private adj2 network))) SAME (manag\$5 NEAR5 (storage NEAR3 (device or resource))) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:18
-	4	((VPN or (virtual adj2 private adj2 network))) SAME (manag\$5 NEAR9 (storage NEAR3 (device or resource))) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 12:51
-	1	((VPN or (virtual adj2 private adj2 network))) SAME (stor\$5 NEAR4 volume) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:23
-	921	709/218.ccls. and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:21
-	0	((709/218.ccls. and @ad<20010424) and ((VPN or (virtual adj2 private adj2 network)) SAME (virtual adj4 router)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:21

	749	709/245.cccls. and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:21
	529	709/249.cccls. and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:21
	3156	707/10.cccls. and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:21
	16	(709/218.cccls. and @ad<20010424) and ((VPN or (virtual adj2 private adj2 network)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:24
	42	(709/245.cccls. and @ad<20010424) and ((VPN or (virtual adj2 private adj2 network)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:46
	29	(709/249.cccls. and @ad<20010424) and ((VPN or (virtual adj2 private adj2 network)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 12:01
	63	(707/10.cccls. and @ad<20010424) and ((VPN or (virtual adj2 private adj2 network)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 12:19
	41	((VPN or (virtual adj2 private adj2 network))) SAME (data NEAR3 center) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 13:07
	1090	(manag\$7 or configur\$7 or setting\$6 or modify\$5 or alter\$4) SAME ((VPN or (virtual adj2 private adj2 network))) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 13:33
	17	(manag\$7 or configur\$7 or setting\$6 or modify\$5 or alter\$4) NEAR10 (virtual NEAR4 router) SAME ((VPN or (virtual adj2 private adj2 network))) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 13:21
	515	(manag\$7 or configur\$7 or setting\$6 or modify\$5 or alter\$4) NEAR5 ((VPN or (virtual adj2 private adj2 network))) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 13:29
	462	(manag\$7 or configur\$7) NEAR5 ((VPN or (virtual adj2 private adj2 network))) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 13:30
	8	((manag\$7 or configur\$7) NEAR5 ((VPN or (virtual adj2 private adj2 network))) and @ad<20010424) and ((VLAN or (virtual NEAR3 LAN)) NEAR5 switch)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 13:30
	1	(manag\$7 or configur\$7 or setting\$6 or modify\$5 or alter\$4) SAME ((VPN or (virtual adj2 private adj2 network))) SAME ((VLAN or (virtual NEAR3 LAN)) NEAR5 switch) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 13:40

	0	((VPN or (virtual adj2 private adj2 network))) SAME (manag\$7 NEAR8 (network NEAR3 storage)) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 15:42
	3332	(service NEAR3 management NEAR4 system) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 15:39
	1035	("service management system") and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 15:40
	10	("integrated service management system") and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 15:40
	75	((("service management system") and @ad<20010424) and ((VPN or (virtual adj2 private adj2 network))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 16:06
	6	(VPN or (virtual adj2 private adj2 network)) SAME (virtual NEAR4 switch) SAME (virtual NEAR4 router) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 16:10
	54	(VPN or (virtual adj2 private adj2 network)) SAME (virtual NEAR4 switch) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 16:22
	0	(manag\$6 or configur\$4) NEAR8 (VPN or (virtual adj2 private adj2 network)) NEAR8 application NEAR8 (SAN or (storage NEAR4 network) or volume) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 16:23
	2	(manag\$6 or configur\$4) SAME (VPN or (virtual adj2 private adj2 network)) SAME application SAME (SAN or (storage NEAR4 network) or volume) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 16:24
	22	(manag\$6 or configur\$4) SAME (VPN or (virtual adj2 private adj2 network)) SAME (SAN or (storage NEAR4 network) or volume) and @ad<20010424	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 16:25
	54	(VPN or (virtual adj2 private adj2 network)) NEAR3 table and @ad<20010424	USPAT; US-PGPUB	2004/07/26 16:41
	0	((VPN or (virtual adj2 private adj2 network)) NEAR3 (database or table)) SAME (protocol and (VPN NEAR3 ID) and (VLAN NEAR3 ID)) and @ad<20010424	USPAT; US-PGPUB	2004/07/26 16:42
	0	((VPN or (virtual adj2 private adj2 network)) NEAR10 (database or table)) SAME (protocol and (VPN NEAR3 ID) and (VLAN NEAR3 ID)) and @ad<20010424	USPAT; US-PGPUB	2004/07/26 16:43
	4	((VPN or (virtual adj2 private adj2 network)) NEAR10 (database or table)) SAME (protocol and (VPN NEAR3 ID) ) and @ad<20010424	USPAT; US-PGPUB	2004/07/26 16:43
	4	((VPN or (virtual adj2 private adj2 network)) NEAR10 (database or table)) SAME (protocol and (VPN NEAR3 ID)) and @ad<20010424	USPAT; US-PGPUB	2004/07/26 16:43

	8	((("NAS" or (network adj2 area adj2 storage)) or ("SAN" or (storage adj2 area adj2 network))) NEAR5 ("VPN" or (virtual adj2 private adj2 network)) and @ad<20000424	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:40
	12	((("NAS" or (network adj2 area adj2 storage)) or ("SAN" or (storage adj2 area adj2 network))) NEAR5 ("VPN" or (virtual adj2 private adj2 network)) and @ad<20010424	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:25
	4	((("NAS" or (network adj2 area adj2 storage)) or ("SAN" or (storage adj2 area adj2 network))) NEAR5 ("VPN" or (virtual adj2 private adj2 network)) and @ad<20010424) not (((("NAS" or (network adj2 area adj2 storage)) or ("SAN" or (storage adj2 area adj2 network))) NEAR5 ("VPN" or (virtual adj2 private adj2 network)) and @ad<20000424)	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 09:41
	1703	709/223.ccls. and @ad<20010424	USPAT; US_PGPUB	2004/07/27 09:42
	89	(709/223.ccls. and @ad<20010424) and ("VPN" or (virtual adj2 private adj2 network))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:14
	16	"5623601"   "5699513"   "5781550"   "5825890"   "5825891"   "5826014"   "5828846"   "5848233"   "5889958"   "5944823"   "6047377"   "6061796"   "6061797"   "6092200"   "6104716"   "6119234").PN.	USPAT	2004/07/27 09:56
	0	akima.in. and ("VPN" or (virtual adj2 private adj2 network))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:15
	0	20020156867.URPN.	USPAT	2004/07/27 10:23
	1	6469891.pn.	USPAT; US_PGPUB	2004/07/27 10:25
	0	("VPN" or (virtual adj2 private adj2 network)) SAME ((("FC" or fib\$2) NEAR2 switch) and @ad<20010424	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:28
	1	("VPN" or (virtual adj2 private adj2 network)) SAME ((("FC" or fib\$2) NEAR4 switch) and @ad<20010424	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:28
	48	("VPN" or (virtual adj2 private adj2 network)) AND ((("FC" or fib\$2) NEAR4 switch) and @ad<20010424)	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:32
	1	manag\$4 NEAR5 ((virtual NEAR3 private NEAR3 network) and server and storage) and @ad<20010424	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:39
	125	manag\$4 NEAR5 ("LUN" or "SAN") and @ad<20010424	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:40
	0	(manag\$4 NEAR5 ("LUN" or "SAN") and @ad<20010424) AND ("VPN" or (virtual adj2 private adj2 network)) and @ad<20000424	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:40

	1	(manag\$4 NEAR5 ("LUN" or "SAN") and @ad<20010424) AND ("VPN" or (virtual adj2 private adj2 network))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/27 10:40
	4	709/244.ccls. and VLAN	USPAT; US-PGPUB	2004/08/09 13:10
	21	VPN and (virtual adj2 router) and @ad<20010424	USPAT; US-PGPUB	2004/08/09 13:22
	82	VPN and (virtual adj2 router)	USPAT; US-PGPUB	2004/08/09 13:24
	38	(SAN SAME NAS) and VPN	USPAT; US-PGPUB	2004/08/09 13:24
	21	(updat\$3 or chang\$3 or modify\$3 or creat\$3) NEAR8 ((VPN or (virtual adj3 network)) NEAR4 table) and @ad<20010424	USPAT; US-PGPUB	2004/08/09 15:53
	321	((VPN or (virtual adj3 network)) NEAR4 table or (virtual adj2 router)) and @ad<20010424	USPAT; US-PGPUB	2004/08/09 15:54
	49	((VPN or (virtual adj3 network)) NEAR4 table or (virtual adj2 router)) and @ad<20010424) and VLAN	USPAT; US-PGPUB	2004/08/10 09:47
	7	((VPN or (virtual adj3 network)) NEAR4 manag\$5) NEAR6 router and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:26
	6	709/223.ccls. and (virtual adj2 router) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:03
	1	(server NEAR3 table) SAME ((ID or identification) and address and (operating NEAR3 system) and (CPU)) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:18
	5	((storage or volume) NEAR4 table) SAME (((storage or volume) NEAR4 (ID or identification)) and port and (capacity or size) and (access or permission)) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:22
	32	((VPN or (virtual adj3 network)) SAME (service NEAR4 table)) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:39
	0	table SAME status SAME (((virtual NEAR2 network) or VPN) and server and (volume or storage or disk)) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:41
	12	table SAME status SAME (((virtual NEAR2 network) or VPN) and server) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:43
	2	(status NEAR3 table) SAME (((virtual NEAR2 network) or VPN) and server) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:45
	722	(storage or volume) SAME (change NEAR6 request) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:46
	34	(storage or volume) SAME (manag\$5 NEAR5 (change NEAR6 request)) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:51
	0	(manag\$5 NEAR5 (change NEAR6 request)) SAME (updat\$4 NEAR6 (command or instruction)) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:54
	1	(request\$3 NEAR6 configuration NEAR5 chang\$3) SAME (updat\$4 NEAR6 (command or instruction)) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:56
	389	(request\$3 NEAR6 configuration NEAR5 chang\$3) and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:56
	32	(request\$3 NEAR6 configuration NEAR5 chang\$3) and 709/223.ccls. and @ad<20010424	USPAT; US-PGPUB	2004/08/10 10:57
	2	(VPN or (virtual adj2 network) NEAR3 (table or database)) SAME ((ID or identification) and IP and protocol and VLAN) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 12:55
	31	(VPN or (virtual adj2 network) NEAR3 (table or database)) AND ((ID or identification) and IP and protocol and VLAN) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 12:56
	3	(VPN or (virtual adj2 network)) SAME ((ID or identification) and IP and protocol and VLAN) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 12:57
	266	(table) SAME (VLAN) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 12:58

		64	(table) SAME (VLAN and ID and IP) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 12:58
		69	(table) SAME (VLAN and (ID or identification) and IP and protocol) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 12:58
		25	(table) NEAR8 (VLAN and (ID or identification) and IP and protocol) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 13:01
		230	(table) NEAR8 (VPN or (virtual adj3 network)) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 13:01
		194	(table) NEAR5 (VPN or (virtual adj3 network)) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 13:05
		21	((table) NEAR5 (VPN or (virtual adj3 network)) and @ad<20010424) and (VLAN adj2 (ID or identification))	USPAT; US-PGPUB	2004/08/12 13:02
		95	(table) NEAR5 (VPN or "virtual private network") and @ad<20010424	USPAT; US-PGPUB	2004/08/12 13:14
		1	(table) NEAR5 (((VPN or "virtual private network") NEAR2 (ID or identification)) and "IP" and "VLAN") and @ad<20010424	USPAT; US-PGPUB	2004/08/12 13:43
		13	VPN SAME "IP" SAME endpoint and @ad<20010424	USPAT; US-PGPUB	2004/08/12 13:44
		41	(table) SAME (((storage or volume) NEAR4 (ID or identification)) and port and (capacity or size) and (access or permission)) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 16:29
		2	table SAME (status NEAR8 (VPN and server)) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 16:30
		0	(status NEAR8 (VPN and server and (disk or volume))) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 16:31
		2	(status SAME (VPN and server and (disk or volume))) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 16:32
		104	table SAME (server adj2 status) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 16:37
		0	table SAME ((server adj2 status) AND ((VPN or (virtual adj2 network)) adj4 status)) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 16:38
		2146	((customer or user) NEAR6 (ID or identification)) SAME (server NEAR6 (ID or identification)) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 16:48
		283	table SAME ((customer or user) NEAR6 (ID or identification)) SAME (server NEAR6 (ID or identification)) and @ad<20010424	USPAT; US-PGPUB	2004/08/12 16:48
		23	table SAME ((customer) NEAR6 (ID or identification)) SAME (server NEAR6 (ID or identification)) and @ad<20010424	USPAT; US-PGPUB	2004/08/13 08:32
		1	table SAME ((customer) NEAR6 (ID or identification)) SAME ((server or VPN) NEAR6 (status)) and @ad<20010424	USPAT; US-PGPUB	2004/08/13 08:42
		3	table SAME ((customer) NEAR6 (ID or identification)) SAME ((database or server or VPN) NEAR6 (status)) and @ad<20010424	USPAT; US-PGPUB	2004/08/13 08:44
		16	table SAME ((customer or client or subscriber) NEAR6 (ID or identification)) SAME ((database or server or VPN) NEAR6 (status)) and @ad<20010424	USPAT; US-PGPUB	2004/08/13 08:48
		82	table SAME ((customer or client or subscriber) NEAR6 (ID or identification)) SAME (status or health or downtime) SAME (server or VPN or database) and @ad<20010424	USPAT; US-PGPUB	2004/08/13 08:50
		11	table SAME ((customer or client or subscriber) NEAR6 (ID or identification)) SAME (status or health or downtime) NEAR4 (server or VPN or database) and @ad<20010424	USPAT; US-PGPUB	2004/08/13 08:50